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Potential contribution of epithelial Na channel to net secretion of aqueous humor

MM Civan, K Peterson-Yantorno, J Sanchez- ... - J Exp ... 1997 - interscience.wiley.com
 ... body RNA a 3.7-kb transcript corresponding to the -subunit of the amiloride-sensitive, -ENaC ...
 We have also found that the Na⁺ -channel inhibitor benzamil inhibits the RVI ... Na⁺ channel is
 activated by shrinkage and contributes to unidirectional reabsorption as aqueous humor. ...
 Cited by 29 - Related articles - BL Direct - All 3 versions

Role of ion channels in aqueous humor formation

TJ Jacob, MM Civan - American Journal of Physiology- Cell ... 1996 - Am Physiological Soc
 ... INa(1T)x), tetrodotoxin-sensitive, voltage-gated Na⁺ channel; INa(hil), epithe- lial,
 benzamil-sensitive Na⁺ channel. ... posterior chamber of the eye and have been hypothe- sized
 to be the rate-limiting factor in the formation of the aqueous humor (32). ...
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[CITATION] Ion transport across the ciliary epithelium: lessons from cultured cells ...

M Wiederholt, H Helbig, C Korbmayer - ... Held in Spoleto, Italy in March ... 1990 - Wiley-VCH
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... agonists on intraocular pressure and aqueous humor dynamics in cynomolgus ...

B TIAN, BANNT GABELT, CE CROSSON, PL ... - Experimental eye ... 1997 - Elsevier
 ... receptor agonists (R)-phenylisopropyladenosine (R-PIA) and N 6 -cyclohexyladenosine (CHA)
 on intraocular pressure (IOP), aqueous humor flow (AHF) and ... The relatively selective adenosine
 A 2 antagonist 3,7-dimethyl-1-propargylxanthine (DMPX, 320 µg) inhibited the early ...
 Cited by 34 - Related articles - BL Direct - All 5 versions

Mechanism of steroid action in ocular inflammation: inhibition of prostaglandin ...

N Floman, U Zor - Investigative Ophthalmology & Visual Science, 1977 - ARVO
 ... 7.4, containing glucose (1 mg. per milliliter) and 0.5 per cent DMA. Results. In vivo
 studies. Prostaglandin E was undetect- able in aqueous humor of intact rabbit eye
 (less than 0.1 ng. per milliliter). Following paracentesis of the ...
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Tissue plasminogen activator activity in human aqueous humor

DM Smalley, JE Fitzgerald, DM Taylor, RE Cone. ... - ophthalmology & visual ... 1994 - ARVO
 ... To distinguish t-PA from u-PA plasminogen activator, activity levels were measured in theabsence
 of soluble fibrin (— soluble fibrin) and in the presence of amiloride (+ amilo- ride) in randomly
 selected aqueous humor samples (AH #1, AH # 2, AH *3).The measured activity in ...
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... applied aminocaproic acid concentrates in the aqueous humor of the rabbit in ...

R Allingham, PB Williams, ER Crouch ... - Archives of ... 1987 - archophth.highwire.org
 ... This is believed to be secondary to its calcium-chelating effect on intercellular matrices.11
 However, it did not increase penetra- tion of aminocaproic acid; aqueous humor aminocaproic
 acid levels within this agent were undetectable. Dimethyl sulfoxide has been used to ...
 Cited by 11 - Related articles - All 4 versions

Transport components of net secretion of the **aqueous humor** and their integrated ...
MM Civan - The Eye's Aqueous Humor: From Secretion to ..., 1998 - books.google.com
... Participation of an **amiloride**-sensitive epithelial Na⁺ channel in the RVI is unusual in nonrenal ...
At the same concentration, **benzamil** had no effect on aliquots of the same cells in ... Na⁺ may also enter NPE cells from the **aqueous humor** through a cation-nonselective channel that ...
Cited by 25 - Related articles - All 2 versions

[CITATION] ..., distribution and elimination of labeled **dimethyl** sulfoxide in man and ...
KH Kolb, G Jaenicke, M Kramer, PE ... - Annals of the New York ... 1967 - ncbi.nlm.nih.gov
... Mesh Terms: Animals; **Aqueous Humor**/analysis; Autoradiography; **Dimethyl** Sulfoxide/blood;
Dimethyl Sulfoxide/metabolism*; **Dimethyl** Sulfoxide/urine; Dogs; Humans; Injections, Intravenous;
Rabbits; Rats; Skin Absorption; Sulfur Isotopes; Tritium. Substances: Sulfur Isotopes; Tritium ...
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Urokinase-type plasminogen activator in human **aqueous humor**
SF Bernatchez, C Tabatabay, D Belin - Investigative ophthalmology & visual ..., 1992 - ARVO
... This PA comi- grated with purified uPA, selectively reacted with an antiserum raised against human uPA, and was inhib- ited by **amiloride**. In agreement with previous re- ports, 910¹
1314 small amounts of tPA also were detected in **aqueous humor**. ...
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